

Oxidation Numbers

Summary: An atom connected to a **more** eN atom = +1

An atom connected to a **less** eN atom = -1

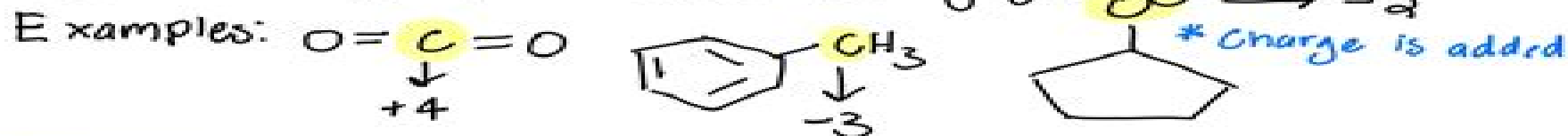
An atom connected the **same** atom = 0

* Number of bonds must be taken into account

* Charge is also incorporated into oxidation number

Oxidation number \uparrow = Oxidized = reducing agent

Oxidation number \downarrow = reduced = oxidizing agent



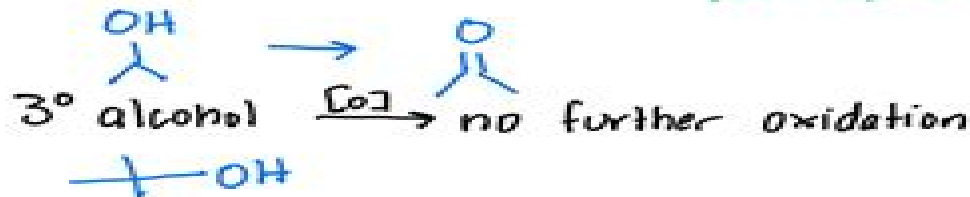
Oxidation Reactions

Summary: 1° alcohol $\xrightarrow{[\text{O}]}$ aldehyde $\xrightarrow[\text{H}_2\text{O}]{\text{must be wet } [\text{O}]}$ carboxylic acid

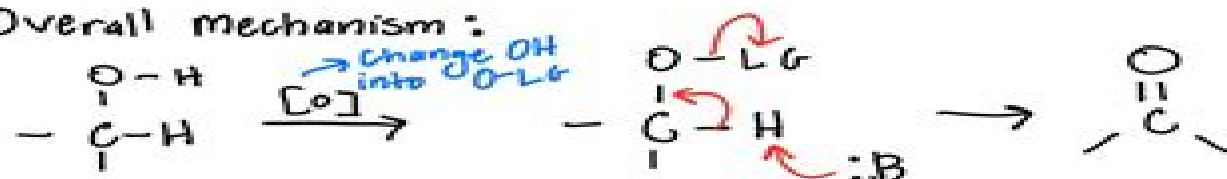


1° alcohol $\xrightarrow{[\text{O}]}$ aldehyde must be dry

2° alcohol $\xrightarrow{[\text{O}]}$ ketone can be either wet or dry



Overall mechanism:



Organic Chem Phenol Study Guide

David R. Klein



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